

Title (en)

CATALYTIC FUEL TANK INERTING APPARATUS FOR AIRCRAFT

Title (de)

KATALYTISCHE LEERRAUMINERTISIERUNGSVORRICHTUNG FÜR FLUGZEUGTANK

Title (fr)

APPAREIL CATALYTIQUE D'INERTAGE DE RÉSERVOIR DE CARBURANT

Publication

**EP 3360786 A1 20180815 (EN)**

Application

**EP 18155848 A 20180208**

Priority

US 201762456274 P 20170208

Abstract (en)

Fuel tank inerting and fire suppression systems and methods for an aircraft are provided. The systems include a fuel tank (1502), a first reactant source (1510) fluidly connected to the fuel tank, the first source arranged to receive fuel from the fuel tank, a second reactant source (1520), a catalytic reactor (1522) arranged to receive a first reactant from the first source and a second reactant from the second source and to generate an inert gas that is supplied to the fuel tank to fill a ullage space of the fuel tank, and a fire suppression inert gas supply system (1591) arranged to direct the inert gas to a fire suppression system (1590), wherein the fire suppression inert gas supply system includes a fire suppression inert gas supply controller (1592) to control a flow of inert gas to the fuel tank and the fire suppression system.

IPC 8 full level

**B64D 37/00** (2006.01); **B01D 53/00** (2006.01); **B64D 37/32** (2006.01)

CPC (source: EP US)

**A62C 3/065** (2013.01 - US); **A62C 3/08** (2013.01 - US); **A62C 99/0027** (2013.01 - US); **A62D 1/0092** (2013.01 - US); **B01D 53/265** (2013.01 - EP US); **B01D 53/8668** (2013.01 - EP US); **B64D 37/02** (2013.01 - US); **B64D 37/32** (2013.01 - EP US); **C01B 32/50** (2017.07 - US); **B01D 2251/11** (2013.01 - EP US); **B01D 2257/702** (2013.01 - EP US); **B01D 2257/80** (2013.01 - EP US); **B01D 2259/4575** (2013.01 - EP US); **Y02T 50/40** (2013.01 - EP US)

Citation (search report)

- [XYI] US 7905259 B2 20110315 - JOHNSON RUSSELL W [US], et al
- [YA] US 7628965 B2 20091208 - JOHNSON RUSSELL [US], et al
- [XAY] EP 3023518 A1 20160525 - HAMILTON SUNDSTRAND CORP [US]
- [XAY] GB 1395691 A 19750529 - GARRETT CORP

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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